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generating oxide of iron and sulphuric acid, which readily form sulphate of iron.

NATURAL HISTORY SOCIETY OF MONTREAL. — November. A paper by Mr. H. G. Vennor, on the galena and plumbago deposits of Eastern Ontario, was read. Mr. Vennor believes that all the so-called Laurentian rocks which contain Eozoön and many metalliferous deposits (galena, apatite, etc.) are of Silurian or Cambrian age. These rocks are always associated with crystalline limestones. The Huronian group he believes to be next oldest, and lastly there is a great tract of Azoic gneisses, etc., which are truly Laurentian. The true Azoic Laurentian beds, in this view, do not contain metalliferous deposits, nor crystalline limestones.

## SCIENTIFIC SERIALS.[1]

PROCEEDINGS OF THE ROYAL GEOGRAPHICAL SOCIETY, xix. 7. — Summary of recent Observations on Ocean Temperature, made in the Challenger and Tuscarora, in relation to the Doctrine of a general Oceanic Circulation sustained by Difference of Temperature.

PETERMANN'S MITTHEILUNGEN, xxi. 10. — The Russian Amu-Darja Expedition. A Natural History Journey to Patagonia, by Dr. K. Berg. Chinese Travelers of the Middle Ages to West Asia, by Dr. E. Bretschneider. Journey to Araguaya by Dr. Couto de Magalhaes in January, 1865. Notes on the Oasis El-Chargeh, by Dr. Schweinfurth. C. Weyprecht's Survey of the Northern Coast of Nowaja Semlja in September and October, 1872. October 18. Paul Solcillet's and Largean's Travels in the Sahara and to Soudan, by Gerhard Rohlfs. Pictures from the Far North, by Karl Weyprecht. The latest Travels in Australia, by E. Behm. The Spread of the Egyptian Power in the Upper Nile and its Geographical Results. Supplementary number, 34. Journey through North Africa from Kuka to Lagos, by G. Rohlfs. 35. The Population of the Earth, by Behm and Wagner. 36. Four Addresses on the Caucasus, by G. Radde. 37. Carl Mauch's Journey in the Interior of South Africa, 1865–72.

THE GEOGRAPHICAL MAGAZINE. — November, 1875. The Arctic Expedition, iii., iv. A Glance at the Results of the Expedition to Hassar by H. P. Lerch, by H. Yule. The Voyage of the Challenger, by J. E. Davis. Recent Journeys in Paraguay, by Keith Johnston.

BULLETIN DE LA SOCIÉTÉ DE GÉOGRAPHIE. — September, 1875. Rise and Fall of the Coast of France, by Jules Girard (records the discovery, between Vannes and Nantes, of Druidical monuments, under the water). Geography of the Athabaskaw-Mackenzie, by l'Abbé Petitot.

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[1] The articles enumerated under this head will be for the most part selected, so that the entire contents of the journals are rarely given.

AMERICAN JOURNAL OF SCIENCE AND ARTS. — December. On Southern New England during the Melting of the Great Glaciers, by James D. Dana. Notice of new and interesting Coal Plants, by E. B. Andrews.

ARCHIV FÜR MIKROSKOPISCHE ANATOMIE. — October. The Genus Loxosoma, by Oscar Schmidt. On some Rhizopoda and allied Organisms, by L. Cienkowski. The Locomotive Apparatus of Infusoria, by H. Simroth. On a new Microtome, by P. Schiefferdecker. The Organs of Hearing of the Heteropoda, by C. Claus.

NATURE. — October 28. Notes from the Challenger (describing a colossal hydroid Polyp), by G. J. Allman. November 4. American Geological Surveys, by A. Geikie. Müller on Bees and Flowers, by J. Lubbock. November 11. Evidences of Ancient Glaciers in Central France, by J. D. Hooker.

JENA JOURNAL OF SCIENCE (JENAISCHE ZEITSCHRIFT, ETC.). — May. The Ontogeny of Fresh-Water Pulmonates, by Carl Rabl. Contribution to the Knowledge of Termites, by F. Müller. *Hæckelina gigantea,* a Protist of the Group of Monothalamia, by E. Bessels. July. On the Developmental History of Helix, by H. von Jhering. The *Gastrula* and the Segmentation of the Eggs of Animals, by E. Haeckel.

ARCHIV FÜR ANTHROPOLOGIE. — August. Notes on the Innuit of Smith's Sound, etc., by E. Bessels. Traces of Men in the Interglacial Deposits of Switzerland, by L. Rütimeyer.

JOURNAL OF ZOÖLOGY (Siebold and Kölliker, editors). — July. New Contributions to a Knowledge of Parasitic Copepods, by C. Claus. On the Results of Studies on the Conjugation of Infusoria and Cell Division, by O. Bütschli. Egg-Segmentation and Larval Development of Phascolosoma, by E. Selenka. On the Structure and Budding of Loxosoma, by H. Nitsche.

ANNALS AND MAGAZINE OF NATURAL HISTORY. — London, December. Relation of the Canal-System to the Tubulation in the Foraminifera, with reference to Dr. Dawson's Dawn of Life, by H. J. Carter. Contributions to the Study of the Chief Generic Types of the Palæozoic Corals. By James Thompson and H. A. Nicholson.

ANNALES DES SCIENCES NATURELLES. — Paris, October, 1875. Study of the Annelides of the Gulf of Marseilles, by A. F. Marion and N. Bobretzky.

THE GEOLOGICAL MAGAZINE. — London, December, 1875. The Cause of the Glacial Period in Britain, by Charles Ricketts. Did the Cold of the Glacial Epoch extend over the S. Hemisphere? by F. W. Hutton. A Chapter in the History of Meteorites (part xii.): The Conclusion, by W. Flight.